DATE: December 1, 1983

SUBJECT: Final Site Report - Riss International
Superfund Site Number: J1

FROM: Michael D. Erbaugh
Region VII TAT - Team Leader

TO: John C. Wicklund
Director, ENSV

THRU: William J. Keffer
Chief, EP&R/ENSV

NAME OF SITE:

Riss International
3635 Chouteau
St. Louis, Missouri

SITE CONTACT:

Loretta Dunovich
Kansas City, Missouri Office
1-800-892-5795

SITE LOCATION:

The site is located approximately 1/2 block west of Grand Blvd. on Chouteau in St. Louis, Missouri. This site is located in an industrial section within the City limits of St. Louis, Missouri. Pevely Dairy is located south of the site on the opposite side of Chouteau. Another truck terminal is located west of this site and a scrap metal facility is located directly to the east. There are no residences in the vicinity.

SITE HISTORY:

The site was identified by a former driver for Russell Bliss as having been sprayed by the Bliss Company during the period of interest. Strickland Truck Lines occupied this site in the early 1970's, after which time the site was vacant for several years before Riss purchased it in 1978. Leaseway Express and Arkansas Freightways have been leasing sections of this site since 1982. Leaseway Express leases the area south of the fence dividing the yard, and Arkansas Freightways leases the area north of this fence. Riss occupies the structure called metal building one.

OWNERSHIP AND ACCESS:

This site is owned by Riss International, with the main office located in Kansas City, Missouri. The phone number is 1-800-892-5795 and the contact is Loretta Dunovich. The on-site occupants are Riss International, Leaseway Express, and Arkansas Freightways. Mr. Loren Clouse, Vice President of Riss International, signed the access agreement on November 29, 1983.

EXPOSURES:

This site is located in an industrial section within the City of St. Louis. It is surrounded on three sides by other businesses. To the north of this site is a fifty-foot dropoff to Gratiot Road. Part of this cliff has been covered with concrete to reduce the undercutting effect of erosion caused by lot runoff. The major part of the east exposure to the site is occupied by a scrap metal yard. The scrap metal yard receives runoff from the site during periods of precipitation. There is a large structure also to the east occupied by Fitwell Seat Covers. This structure is owned by Riss International. Jesse's Grill is located adjacent to the southeast corner of the site. This building is also owned by Riss International. Pevely Dairy is located south of this site on the opposite side of Chouteau. There is another truck terminal located on the west side of the Riss site.

SAMPLING INVESTIGATION:

OBJECTIVES:

1. To obtain adequate samples from the allegedly sprayed area to determine the presence or absence of dioxin contamination on the site.

2. If contamination exists, to be able to estimate probable concentration ranges.

3. To obtain samples from likely human exposure areas to serve as a guide for follow-up intensive sampling.

4. To obtain off site samples to ascertain if there is any off-site migration of contamination, if contamination exists.

PROPOSED SAMPLING DETAILS:

The following five types of samples were proposed to assess the possibility of TCDD contamination at this site:

1. DRAINAGE SAMPLES - Site drainage occurs on both the north and east side of the site. On the north, drainage runs past the fence and down a steep slope to the street below. Drainage to the east flows into a scrap metal yard. One 10-aliquot sample will be taken north of the site from the west Riss property line east to the north property line of the scrap metal

facility. A second 10-aliquot drainage sample will be taken on the west side of Grand Boulevard. Both drainage samples consisted of surface accumulation. Drainage samples are shown as squares on the site map.

2. DUST SAMPLES - Dust samples will be taken from the terminal, the office, and two metal buildings on site, a building in the scrap metal facility northeast of the site, Jesse's Grill on the southeast corner of the site, and a large building in the east central area of the site. Dust samples are shown as triangles on the site map.

3. DRILL RIG SAMPLES - Discrete drill rig samples will be taken at a depth of 0-12 inches based on a 100-foot grid. A total of 16 drill rig samples, plus duplicate and priority pollutant samples, will be taken. The drill rig sample points are shown as circles on the site map.

4. STREET SWEEP SAMPLES - Two street sweepings will be taken along the north edge of the site. Each sweeping will be taken along a 200-foot section of the street. Sweepings will not be taken along Grand Boulevard or Chouteau due to the danger to sample team members from the heavy traffic flow along these two streets. Sweep samples are shown as zig-zag lines between arrows on the site map.

5. CONTROL CAMPGROUND SAMPLE - A control/background sample will be taken at a location to be decided by the Team Leader. This sample is not shown on the site map.

SITE ACTIVITIES:

Sampling team arrived on site (Riss International) at 0800 hours on November 29, 1983. Sampling team consisted of the following personnel:

Mike Erbaugh - TAT Region VII - Team Leader
Russ Krohn - TAT Region VII
Mike Clemons - TAT Region VII
Karen Sahatjian - TAT Region VII
Susie Love - TAT Region VII
Dennis Howard - TAT Region VII
Helen Holm - TAT Region VII
Wood Ramsey - TAT Region VII
Larry Alderson - MDNR
Mark Reising - MDGLS

Mr. Dan Wilson of the City of St. Louis Health Department was on scene with the sampling team. At 0845 hours Mr. Loren Clouse, Vice President of Riss International, arrived on scene and signed the Access Agreement for sampling to be conducted on site.

A total of 25 samples were obtained:

Soil	15
Dust/Sweepings	5
Drainage	2
Rinsate	1
Duplicates	1
Prioirity Pollutants	1
TOTAL	25

Upon completion, area was cleaned and all holes were filled and cold patched. Sampling team returned to the Command Post. Sampling van was restocked and samples were packed for shipment. (See Attached)

DEVIATIONS TO THE SAMPLING PLAN:

1. DRAINAGE SAMPLES - The north drainage sample was taken within the Riss compound. The east drainage sample was taken on a concrete access road east of the scrap metal yard and west Grand Blvd.

2. DUST SAMPLES - No office sample was taken due to insufficient dust. Metal Building I and Metal Building II turned out to be one building, therefore only one sample was taken. The owner of the scrap metal yard would not sign an access agreement.

3. DRILL RIG SAMPLES - The west row of samples was moved to 60 feet from the west fence to avoid parked trucks and a concrete pad that ran the distance of the terminal. The F row was moved 70 feet south of the E row to avoid parked trucks. Sample point E3 was unobtainable due to the concrete below the asphalt.

4. STREET SWEEPING SAMPLES - The north sweeps were reduced to one sweep sample due to the distance to the street below.

5. CONTROL/BACKGROUND - No control sample was taken. All areas that would have been within a reasonable distance were paved.

IMPLEMENTATION AND GENERAL COMMENTS:

The closest hospital was approximately three blocks south of the site at the intersection of Park and Grand. Sample collection and safety procedures remained identical to those described previously in study plan documents for previous phases of the St. Louis Area Dioxin Investigation. Individual sample data documentation was implemented and chain-of-custody was maintained in adherance to standard EPA procedures.

Attachment

EPANO	QCCODE	SITES	LAB	VALUE	CODE	VALIDCODE	UNITS	DESCR
AAJ100		RIS	ENV	0.245	U	V	NG/GM	A-1 location, 0-12 in. depth, 1 aliquot.
AAJ101		RIS	ENV	0.388	U	V	NG/GM	B-1 location, 0-12 in. depth, 1 aliquot.
AAJ102		RIS	ENV	0.230	U	V	NG/GM	C-1 location, 0-12 in. depth, 1 aliquot.
AAJ105		RIS	ENV	0.323	U	V	NG/GM	F-1 location, 0-12 in. depth, 1 aliquot.
AAJ106		RIS	ENV	0.420	U	V	NG/GM	E-2 location, 0-12 in. depth, 1 aliquot.
AAJ108		RIS	ENV	0.560	U	V	NG/GM	A-3 location, 0-12 in. depth, 1 aliquot.
AAJ109		RIS	ENV	0.430	U	V	NG/GM	B-3 location, 0-12 in. depth, 1 aliquot.
AAJ110		RIS	ENV	0.400	U	V	NG/GM	C-3 location, 0-12 in. depth, 1 aliquot.
AAJ111		RIS	ENV	0.420	U	V	NG/GM	D-3 location, 0-12 in. depth, 1 aliquot.
AAJ113		RIS	ENV	0.100	U	V	NG/GM	F-3 location, 0-12 in. depth, 1 aliquot.
AAJ114		RIS	ENV	0.100	U	V	NG/GM	F-2 LOCATION, 0-12 IN. DEPTH, 1 ALIQUOT
AAJ116	F	RIS	BAT	0.100	U	V	NG/GM	Field blank, Rinsate of AAJ114.
AAJ117		RIS	BAT	0.100		V	NG/GM	North Sweep.
AAJ118		RIS	ENV	0.840		V	NG/GM	North Drainage. Surface, 10 Aliquots.
AAJ123		RIS	BAT	0.170	U	V	NG/GM	Unknown Building Dust.
AAJ127		RIS	ENV	0.660		V	NG/GM	F-4, 0-12 in., 1 Aliquot.
AAJ128		RIS	ENV	0.100		V	NG/GM	F-5, 0-12 in., 1 Aliquot.
AAJ104		RIS	ENV	0.630	U	V	NG/GM	E-1 location, 0-12 in. depth, 1 aliquot.
AAJ104	L	RIS	ENV	0.840	U	V	NG/GM	E-1 location, 0-12 in. depth, 1 aliquot.
AAJ115		RIS	ENV	0.160	U	V	NG/GM	F-2 location, 0-12 in. depth, 1 aliquot
AAJ115	L	RIS	ENV	0.100	U	V	NG/GM	F-2 location, 0-12 in. depth, 1 aliquot
BAJ102		RIS	UST	1.080		V	NG/GM	0-2 IN. DEPTH, 10 ALIQUOTS, EAST SERVICE ROAD.
BAJ108		RIS	UST	0.680		V	NG/GM	0-2 IN. DEPTH, 10 ALIQUOTS, GRATIOT RETAINING WALL.
AAJ103		RIS	ENV	0.850	U	V	NG/GM	D-1 location, 0-12 in. depth, 1 aliquot.
AAJ124		RIS	BAT	0.260		V	NG/GM	Metal Building 1, Dust.
BAJ101		RIS	UST	0.100	U	V	NG/GM	0-2 IN. DEPTH, 10 ALIQUOTS, EAST OF GATE ON GRAND AVE.
AAJ126		RIS	BAT	0.100	U	I	NG/GM	Jesse s Grill Dust.
AAJ121		RIS	BAT	0.160	U	V	NG/GM	Terminal Dust.

+ BAS 101 102 103

#	SITE NAME	LOCATION
-AAJ100 A-1 location, 0-12 in. depth, 1 aliquot.	Riss International / Lenseway Express / Arkansas Freight	St. Louis, Mo.
-AAJ101 B-1 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo. Jesse's Grill / Columbia Properties
-AAJ102 C-1 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ103 D-1 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ104 E-1 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ105 F-1 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ106 E-2 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ108 A-3 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ109 B-3 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ110 C-3 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ111 D-3 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ113 F-3 location, 0-12 in. depth, 1 aliquot.	Riss International	St. Louis, Mo.
-AAJ114 F-2 location, 0-12 in. depth, 1 aliquot, Priority Pollutant taken with same sample no.	Riss International	St. Louis, Mo.
-AAJ115 F-2 location, 0-12 in. depth, 1 aliquot, Duplicate of AAJ114.	Riss International	St. Louis, Mo.
-AAJ116 F-2 location, Rinsate of AAJ114.	Riss International	St. Louis, Mo.
-AAJ117 North Sweep.	Riss International	St. Louis, Mo.
-AAJ118 North Drainage, Surface, 10 Aliquots.	Riss International	St. Louis, Mo.
-AAJ120 East Drainage, Surface, 10 Aliquots.	Riss International	St. Louis, Mo.

A #	SITE NAME	LOCATION
-AAJ121 Terminal Dust.	Riss International	St. Louis, Mo.
-AAJ123 Unknown Building Dust.	Riss International	St. Louis, Mo.
-AAJ124 Metal Building 1, Dust.	Riss International	St. Louis, Mo.
-AAJ126 Jesse s Grill Dust.	Riss International	St. Louis, Mo.
-AAJ127 F-4, 0-12 in., 1 Aliquot.	Riss International	St. Louis, Mo.
-AAJ128 F-5, 0-12 in., 1 Aliquot.	Riss International	St. Louis, Mo.

RECORDS SELECTED 24

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Riss International	3635 Chouteau				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
St. Louis,	MO	63110	St. Louis City		

09 COORDINATES LATITUDE 38° 37' 38.7" LONGITUDE 0 90° 14' 24.9"

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION ___/___/___ (MONTH DAY YEAR)

02 SITE STATUS ☐ ACTIVE ☐ INACTIVE

03 YEARS OF OPERATION _____ (BEGINNING YEAR) _____ (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Mike Erbaugh	Team Leader	Weston	(816) 621-6240
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Wood Ramsey	TAT, Region 7	Weston	(816) 621-6240
Karen Sahatian Dennis Howard	TAT, Region 7	Weston	(816) 621-6240
Mike Clemons Mark Reising	TAT, Region 7	Weston	(816) 621-6240
Susie Love Helen Holm	TAT, Region 7	Weston	(816) 621-6240
Dan Wilson		St. Louis Health Dept.	( )
13 SITE REPRESENTATIVES INTERVIEWED	**14 TITLE**	**15 ADDRESS**	**16 TELEPHONE NO.**
Charlie Davis	Terminal Manager	Strickland Transfer Co., Employed 1968 - 1978	(314) 869-3100
Loretta Dumovich	V.P. Riss International		1-800/892-5795
Mr. Sherrell	Manager	Jesse's Grill, 3601 Choteau, St. Louis, Missouri	(314) 773-7274
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	11-29-83 0800 - 1215	

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NO.
Bill Achors	Terminal Manager for Leaseway Express			( )
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NO.**	**08 DATE**
Karen Koth	E&E, Inc.	FIT	913/432-9961	3 / 23 / 84 (MONTH DAY YEAR)

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This form was completed solely from the information contained within EPA files at the date of this assignment. The preparer has not necessarily performed a site inspection at this location or been to this site.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☑ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS
- CUBIC YARDS
- NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☑ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☑ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	Unknown		Alleged spraying of oil thought
SOL	SOLVENTS			to be contaminated with TCDD.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	Tetrachlorodibenzo-p-dioxin	1746-01-6	OD	less than	1 ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	N/A		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EP&R Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MO	

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Results of November, 1983 sampling show less than 1 ppb TCDD in 1 sweep and 1 dust sample. Three dust samples are being re-analyzed.

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Results of November, 1983 sampling show less than 1 ppb TCDD in 18 soil and 3 drainage samples.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: MO | 02 SITE NUMBER:

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☑ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Results of November, 1983 sampling show less than 1 ppb TCDD in 3 drainage samples.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Former Bliss Oil Company driver, David Covert, recalls spraying the site before it was occupied by Riss International in 1978. A former manager for Strickland Transfer (previous occupant before Riss International) stated that lot was frequently oiled, as many as 4 or 5 times in early '70's. Manager at Jesse's Grill recalls Bliss spraying the entire lot between Riss and Jesse's Grill was sprayed. Riss lot was from 1970-74 and paved about 1974.

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V. SOURCES OF INFORMATION

EP&R Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. PERMIT INFORMATION

NONE KNOWN

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

(Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EP&R Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. _____ (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER _____

03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
_____ (ft)	_____	_____ (ft)	_____ (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
_____	☐	_____ (mi)
_____	☐	_____ (mi)
_____	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

_____ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

_____

04 DISTANCE TO NEAREST OFF-SITE BUILDING

_____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site is located in highly populated mid-town St. Louis, approximately 6 miles south-southwest of St. Louis University and 3 miles west of the Mississippi River.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
_____ (ft)	_____ (ft)	_____	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
_____ (in)	_____ (in)	0-5 %		_____ %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL: A. Site is located in commercial/industrial area. (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES: B. _____ (mi)

AGRICULTURAL LANDS — PRIME AG LAND: C. _____ (mi)

AG LAND: D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located in mid-town St. Louis, Missouri and is surrounded by commercial/business; Peverly Dairy south of the site, truck lot west of the site, and a scrap metal facility east of the site. The north end of the site drops off 40 feet to a street. Jesse's Grill is located in the SE corner of the site. Most of the drainage runs into the scrap yard to the east. Hamill Transfer Company is approximately 2,000 feet SE of the site, (See Hamill Transfer Company, St. Louis, Missouri - Site Investigation Report).

VII. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EP&R File

Topographic Map -- Granite City, Illinois-Missouri Quadrangle

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MO	

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
~~SURFACE WATER~~ Drainage	3		available
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	18		available
VEGETATION			
~~OTHER~~ Sweep & Dust	5	3 dust samples are being re-analyzed	2 to 5 available.

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☑ YES ☐ NO

04 LOCATION OF MAPS EP&R Files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EP&R Files.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE: MO | 02 SITE NUMBER:

II. CURRENT ~~OWNER(S)~~ Realty Owners

01 NAME: Columbia Properties, Inc. Owns City Block | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 215 W. Pershing Road | 04 SIC CODE:
05 CITY: Kansas City, | 06 STATE: MO | 07 ZIP CODE: 64018

01 NAME: Louise Riss Wells | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 7742 Bridle Path Lane Owns City | 04 SIC CODE: Block 2187E/W
05 CITY: McLean, | 06 STATE: VA | 07 ZIP CODE: 22001

01 NAME: Columbia Properties, Inc. Owns City Block 2185A | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 215 Pershing Road | 04 SIC CODE:
05 CITY: Kansas City, | 06 STATE: MO | 07 ZIP CODE: 64018

01 NAME: Southport Group Owns City Block 2185B | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 200 Sidney Street | 04 SIC CODE:
05 CITY: St. Louis, | 06 STATE: MO | 07 ZIP CODE: 63104

III. Current Owners (List Most Recent First)

01 NAME: Riss International | 02 D+B NUMBER: 1978 to present
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 3635 Chouteau | 04 SIC CODE:
05 CITY: St. Louis, | 06 STATE: MO | 07 ZIP CODE: 63110

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

PARENT COMPANY (If applicable)

08 NAME: 2184 | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Sources PART 8 - OPERATOR INFORMATION

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Riss International	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
3635 Choteau	

05 CITY	06 STATE	07 ZIP CODE
St. Louis,	MO	63110

08 YEARS OF OPERATION	09 NAME OF OWNER
1978 - Present	

PREVIOUS OPERATOR

10 NAME	11 D+B NUMBER
Admiral Merchants Motor Freights, Inc.	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
no address available	

14 CITY	15 STATE	16 ZIP CODE

III. CURRENT OPERATOR(S)

01 NAME	02 D+B NUMBER
Leaseway Express	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
3635 Choteau	

05 CITY	06 STATE	07 ZIP CODE
St. Louis,	MO	63110

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
9/82 to Present	

01 NAME	02 D+B NUMBER
Arkansas Freightways	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
3635 Choteau	

05 CITY	06 STATE	07 ZIP CODE
St. Louis,	MO	63110

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
11/82 to Present	

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATOR(S)

10 NAME	11 D+B NUMBER
Strickland Transfer Company	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
No Address Available	

14 CITY	15 STATE	16 ZIP CODE

PARENT CO.: Hill-Elliott

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EP&R Files (Correspondence dated May 5, 1983 from D.J. Wilson, Environmental Sanitation Specialist, City of St. Louis Division of Health, to Thomas Astorino. Administrative Chief Community Sanitation and Vector Control Service).

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE: MO	02 SITE NUMBER:

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EP&R Files

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MO	

II. PAST RESPONSE ACTIVITIES None Known

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MO	

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO Sampling

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

11/29/83 soil, dust, sweep, and drainage sampling.

Results of all samples was negative (less than 1 ppb TCDD), however, 3 dust samples are being re-analyzed.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EP&R Files

EPA FORM 2070-13 (7-81)

WESTON·SPER Suite 306, Gateway Centre II
4th & State Avenue, Kansas City, KS 66101 • (913) 621-6240

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

TO: Ron McCutcheon, EP&R/ENSV — October 10, 1984

FROM: Helen L. Holm, Region VII TAT — TAT-07-F-00692

SUBJECT: Possible Sources of the One Positive TCDD Sample at Riss International
3635 Chouteau
St. Louis, Missouri
TDD #07-8410-60 — PCS #3060

This report discusses the possible extraneous sources of the one positive TCDD sample at Riss International in St. Louis, Missouri. This sample consisted of 10 aliquots taken at a depth of 0-2 inches along the east service road bordering the site. The TCDD concentration of this sample was 1.08 ppb. The possible sources considered included sampling methodology, the P.J. Hamill Transfer Company, Jesse's Grill, herbicides, and analytical error.

Sampling methodology is a possible source. Cross-contamination could have occurred from the tools used for sampling, though this is not probable. The positive sample was taken after EPA/EP&R switched from using reusable sample collection pans to using disposable pie pans and spoons. A shovel or a pick would not have been used since the sample depth was only 0 to 2 inches. Thus, the danger of cross-contamination due to contaminated sampling equipment is discounted.

P.J. Hamill Transfer Company was sampled on December 7, 1982, and from March 2 through March 5, 1983. TCDD contamination of up to 160 ppb was found in soil samples taken at Hamill. Hamill Transfer is located approximately 0.4 miles east of Riss along Chouteau. It is unlikely that dioxin-contaminated soil was transported this distance to Riss by drainage or by vehicular movement. The drainage route is ruled out by examining the relative elevations of the 2 sites and drainage patterns at the sites. The Riss site has an approximate elevation of 500 feet above sea level, and the Hamill site has elevations ranging from 460 to 465 feet above sea level. Drainage patterns of the two sites, as shown on the attached maps, make cross-contamination unlikely. Vehicular transport is also unlikely. The positive sample was taken at the side of a service road too narrow for heavy traffic.

Jesse's Grill is also a possible source of dioxin contamination. The lot next to Jesse's was reportedly oiled by Bliss, and this site is scheduled for sampling for dioxin during Phase XVI. Also, the drainage pattern would be right for such cross-contamination to occur. Although Jesse's Grill cannot absolutely be ruled out as the source, a discrete soil sample taken approximately 75 feet from Jesse's was negative. Therefore, it is unlikely that a 10-aliquot composite sample with its closest aliquot approximately 200 feet from Jesse's Grill would be positive if Jesse's was indeed the source. However, sampling of Jesse's in Phase XVI will help determine this.

Weed spraying is a third possible source of dioxin contamination. The area from which the positive sample was taken is a likely area for past spraying with herbicides. Considering runoff patterns at the site, this might explain why this sample was the only positive. However, exposure of the material to sunlight makes this an unlikely cause.

The three previously-discussed possible external sources of the positive have another common problem. The positive sample, BAJ102, was taken at approximately the same location, with the same number of aliquots, and at the same depth as a sample taken earlier, AAJ120. The TCDD concentration in AAJ120 was analyzed at 0.450 ppb and 0.230 ppb in two analyses. These results suggest analytical error in the analysis of sample BAJ102. According to T. Viswanathan, Region VII TAT chemist, a 10% error is common in TCDD analysis, and error for such analyses rarely is more than 20%. Such error can arise in laboratory preparation or samples or even within the GC/MS itself. An analytical error is the most likely explanation of this positive sample, especially since its TCDD concentration is still relatively low, 1.08 ppb. George C. Schupp, Region VII TAT analytical chemist, reexamined the data for the three samples of concern. All of the samples met the quality control criteria established for the analytical method used. Schupp did emphasize, however, that since only one analysis of BAJ102 (the positive sample) has been performed, another analysis of BAJ102 may be indicated. Also, Cliff Kirchmer, TAT chemist, stated that a best estimate of the TCDD concentration at the location where BAJ102 and AAJ102 were taken would be an average of the average of the two values obtained for AAJ120 and BAJ102. This best estimate is 0.71 ppb, still below the 1 ppb limit. A sheet explaining how this 0.71 ppb value was obtained is attached.

In conclusion, the possible physical extraneous sources of the positive sample are all unlikely. Sampling methodology is ruled out since disposable sampling instruments were used. The P.J. Hamill Transfer Company, Jesse's Grill, and herbicides are also unlikely sources, because a sample previously taken at approximately the same location with the same number of aliquots and at the same depth as BAJ102 and analyzed twice had concentrations less than 1 ppb. Analytical error is a likely source of the positive. There are 2 ways to test this hypothesis. First, sample BAJ102 can be reanalyzed. The same was analyzed by U.S. Testing; according to contract specifications, the laboratory should still have the sample.

The second method is to take another 10 aliquot sample at 0-2 inch depth and at approximately the same location as BAJ102. Resampling will cost more than reanalyzing BAJ102; therefore, I recommend that the existing sample be reanalyzed and further action taken depending upon the results of that analysis.

Helen L. Holm

HELEN L. HOLM by RLS
Region VII TAT

Robert L. Sholar

Reviewed by Robert L. Sholar
Region VII TATL

HLH/dm

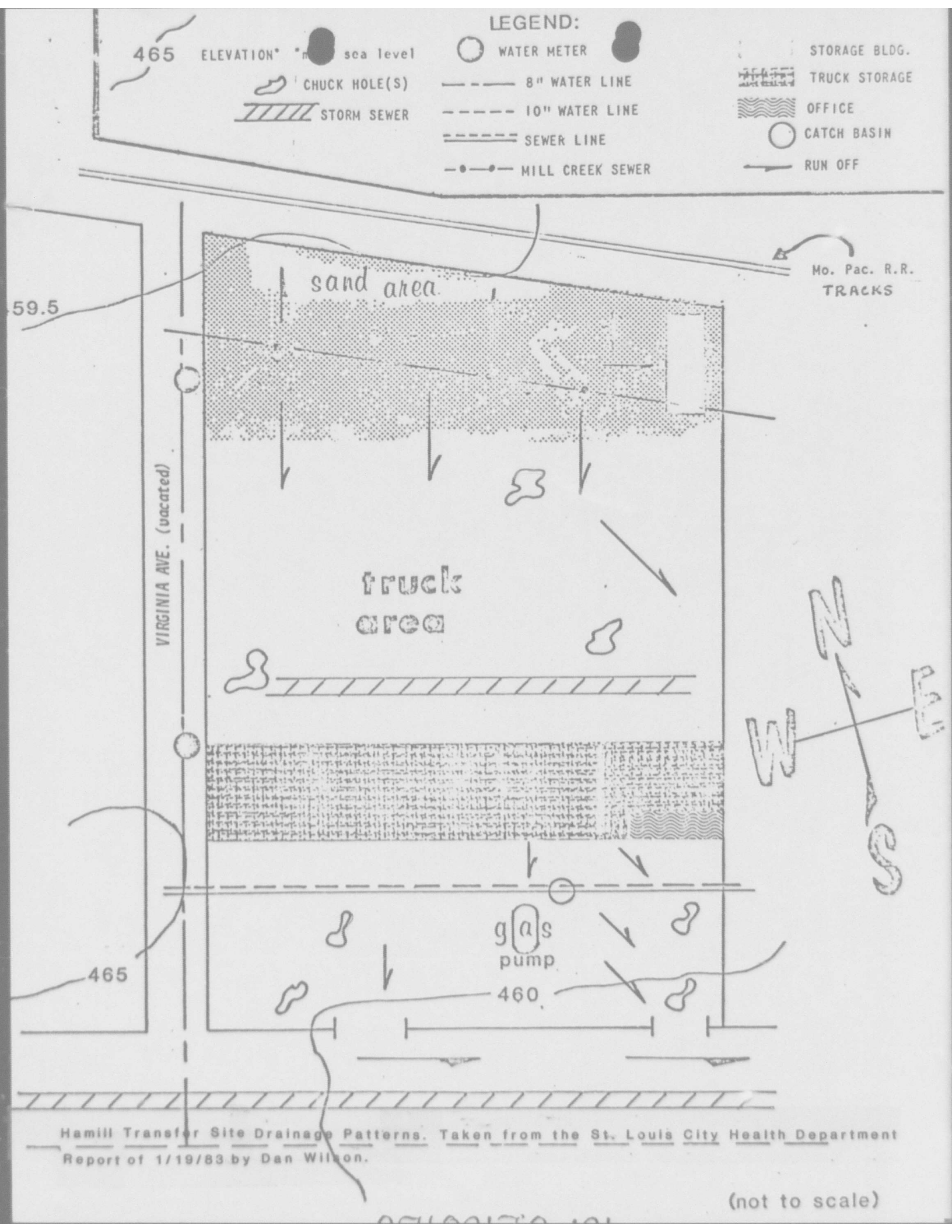
Attachments

cc: William Keffer

WESTON

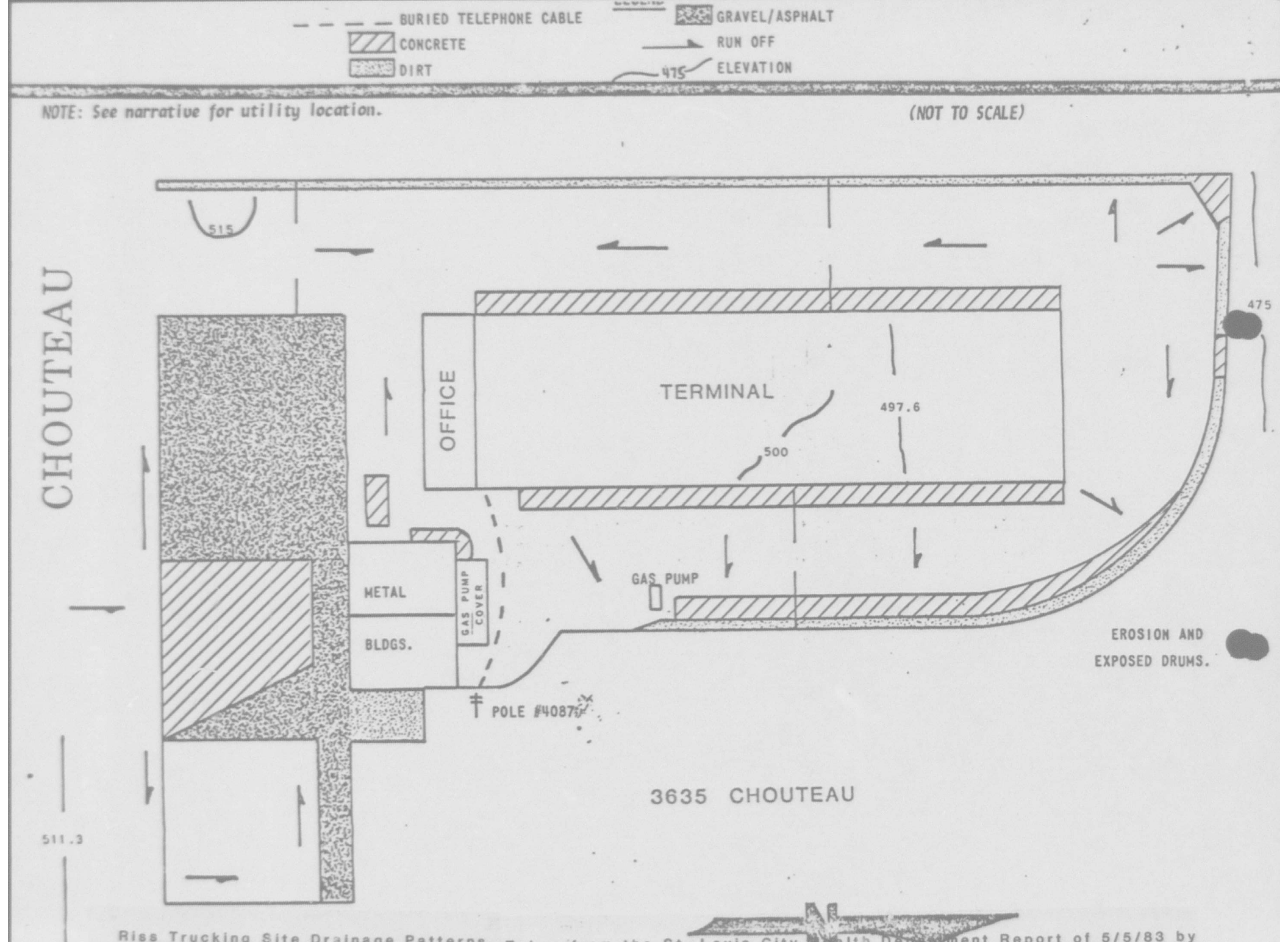
Locations of Hamill Transfer and Riss Trucking.

1 inch = 0.71 mile.



Hamill Transfer Site Drainage Patterns. Taken from the St. Louis City Health Department Report of 1/19/83 by Dan Wilson.

(not to scale)



Riss Trucking Site Drainage Patterns. Taken from the St. Louis City Health Department Report of 5/5/83 by Dan Wilson.

AAJ102----0.45 ppb
0.23 ppb

BAJ102----1.08 ppb

$$\frac{0.23 + 0.45 \text{ ppb}}{2} = 0.34 \text{ ppb}^*$$

$$0.34 + 1.08 \text{ ppb} = 1.42 \text{ ppb}$$

$$\frac{1.42 \text{ ppb}}{2} = 0.71 \text{ ppb}$$

* Note: The 2 values for AAJ102 are averaged first because they are 2 data points for the same sample, AAJ102.

Phone EV

TO: Ron McCutcheon, EP&R/ENSV

June 29, 1984

FROM: Karen A. Sahatjian,
Region VII TAT

TAT-07-F-00545

PCS# 0538

SUBJECT: Supplemental Sampling Report
Columbia Properties, Inc.
TDD# 07-8406-40

NAME OF SITE: Former Riss Trucklines
3635 Chouteau
St. Louis, MO

SITE CONTACT: Columbia Properties, Inc. — IS RISS INTER.
Loretta Dumovich
Kansas City, MO
816/471-3400

SITE OWNERSHIP & ACCESS

(LORETTA KALUS)

The facility is currently owned by Columbia Properties, Inc. Ms. Dumovich clearly stated that she is the only person to contact to gain access to the facility or discuss sampling results.

SITE LOCATION, HISTORY AND EXPOSURES:

Refer to sampling plan dated October 21, 1983.

SUPPLEMENTAL SAMPLING INVESTIGATION:

On June 19, 1984, Karen Sahatjain & Dan Wilson, City of St. Louis Health Department, collected three samples at the former Riss Trucklines site. The city of St. Louis Health Department requested that EPA collect three additional drainage samples.

Sampling began at 1215 hours. The following areas were sampled: East of the gate on Grand Ave., the East Service Road, and along the retaining wall on Granot. Sample depths were 0-2 inches, 10 aliquots each. Drainage samples are designated by an open square on the site sampling map.

GENERAL ANALYTICAL SCHEME:

All collected samples will be analyzed for 2,3,7,8-TCDD at the 1 ppb detection level. Since only three samples were collected, a rinsate, duplilcate, and priority polluatant were not collected.

DATE :09/14/84
DATABASE: RECENT
REPORT FOR SITE: RISS INTERNATIONAL, INC.

SITE	EPA NO	VALUE			SAMPLED	DESCRIPTION
RIS	BAJ101	.100	U	I	06/19/84	0-2 IN. DEPTH, 10 ALIQUOTS, EAST OF GATE ON GRAND AVE.
RIS	BAJ101K	.100	U	V	06/19/84	0-2 IN. DEPTH, 10 ALIQUOTS, EAST OF GATE ON GRAND AVE.
RIS	BAJ102	1.080		V	06/19/84	0-2 IN. DEPTH, 10 ALIQUOTS, EAST SERVICE ROAD.
RIS	BAJ108	.680		V	06/19/84	0-2 IN. DEPTH, 10 ALIQUOTS, GRATIOT RETAINING WALL.

SITE	EPA NO	VALUE			DATE	DESCRIPTION
RIS	BAJ101	.100	U	I	06/19/84	0-2 IN. DEPTH, L
RIS	BAJ101R	.100	U	X	06/19/84	0-2 IN. DEPTH, L
RIS	BAJ102	1.080		V	06/19/84	0-2 IN. DEPTH, L
RIS	BAJ108	.680		V	06/19/84	0-2 IN. DEPTH, L

LOCATS, EAST OF GATE ON GRAND AVE.
LOCATS, EAST OF GATE ON GRAND AVE.
LOCATS, EAST SERVICE ROAD.
LOCATS, GRATIOT RETAINING WALL.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

October 23, 1984

MEMORANDUM

SUBJECT: Evaluation of Source for Positive Dioxin Analysis at Riss International

FROM: William J. Keffer
Chief, EP&R/ENSV

TO: Art Spratlin
Deputy Director, ARWM

THRU: John C. Wicklund
Director, ENSV

Attached for your use is the TAT evaulation for the one positive sample collected during the subject study. No further action is contemplated pending review of this situation by your staff.

Attachment

Bill Kieffer

WESTON • SPER Suite 306, Gateway Centre II
4th & State Avenue, Kansas City, KS 66101 • (913) 621-6240

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

TO: Ron McCutcheon, EP&R/ENSV — October 10, 1984

FROM: Helen L. Holm, Region VII TAT — TAT-07-F-00692

SUBJECT: Possible Sources of the One Positive TCDD Sample at Riss International
3635 Chouteau
St. Louis, Missouri
TDD #07-8410-60 — PCS #3060

This report discusses the possible extraneous sources of the one positive TCDD sample at Riss International in St. Louis, Missouri. This sample consisted of 10 aliquots taken at a depth of 0-2 inches along the east service road bordering the site. The TCDD concentration of this sample was 1.08 ppb. The possible sources considered included sampling methodology, the P.J. Hamill Transfer Company, Jesse's Grill, herbicides, and analytical error.

Sampling methodology is a possible source. Cross-contamination could have occurred from the tools used for sampling, though this is not probable. The positive sample was taken after EPA/EP&R switched from using reusable sample collection pans to using disposable pie pans and spoons. A shovel or a pick would not have been used since the sample depth was only 0 to 2 inches. Thus, the danger of cross-contamination due to contaminated sampling equipment is discounted.

P.J. Hamill Transfer Company was sampled on December 7, 1982, and from March 2 through March 5, 1983. TCDD contamination of up to 160 ppb was found in soil samples taken at Hamill. Hamill Transfer is located approximately 0.4 miles east of Riss along Chouteau. It is unlikely that dioxin-contaminated soil was transported this distance to Riss by drainage or by vehicular movement. The drainage route is ruled out by examining the relative elevations of the 2 sites and drainage patterns at the sites. The Riss site has an approximate elevation of 500 feet above sea level, and the Hamill site has elevations ranging from 460 to 465 feet above sea level. Drainage patterns of the two sites, as shown on the attached maps, make cross-contamination unlikely. Vehicular transport is also unlikely. The positive sample was taken at the side of a service road too narrow for heavy traffic.

Jesse's Grill is also a possible source of dioxin contamination. The lot next to Jesse's was reportedly oiled by Bliss, and this site is scheduled for sampling for dioxin during Phase XVI. Also, the drainage pattern would be right for such cross-contamination to occur. Although Jesse's Grill cannot absolutely be ruled out as the source, a discrete soil sample taken approximately 75 feet from Jesse's was negative. Therefore, it is unlikely that a 10-aliquot composite sample with its closest aliquot approximately 200 feet from Jesse's Grill would be positive if Jesse's was indeed the source. However, sampling of Jesse's in Phase XVI will help determine this.

Weed spraying is a third possible source of dioxin contamination. The area from which the positive sample was taken is a likely area for past spraying with herbicides. Considering runoff patterns at the site, this might explain why this sample was the only positive. However, exposure of the material to sunlight makes this an unlikely cause.

The three previously-discussed possible external sources of the positive have another common problem. The positive sample, BAJ102, was taken at approximately the same location, with the same number of aliquots, and at the same depth as a sample taken earlier, AAJ120. The TCDD concentration in AAJ120 was analyzed at 0.450 ppb and 0.230 ppb in two analyses. These results suggest analytical error in the analysis of sample BAJ102. According to T. Viswanathan, Region VII TAT chemist, a 10% error is common in TCDD analysis, and error for such analyses rarely is more than 20%. Such error can arise in laboratory preparation or samples or even within the GC/MS itself. An analytical error is the most likely explanation of this positive sample, especially since its TCDD concentration is still relatively low, 1.08 ppb. George C. Schupp, Region VII TAT analytical chemist, reexamined the data for the three samples of concern. All of the samples met the quality control criteria established for the analytical method used. Schupp did emphasize, however, that since only one analysis of BAJ102 (the positive sample) has been performed, another analysis of BAJ102 may be indicated. Also, Cliff Kirchmer, TAT chemist, stated that a best estimate of the TCDD concentration at the location where BAJ102 and AAJ102 were taken would be an average of the average of the two values obtained for AAJ120 and BAJ102. This best estimate is 0.71 ppb still below the 1 ppb limit. A sheet explaining how this 0.71 ppb value was obtained is attached.

In conclusion, the possible physical extraneous sources of the positive sample are all unlikely. Sampling methodology is ruled out since disposable sampling instruments were used. The P.J. Hamill Transfer Company, Jesse's Grill, and herbicides are also unlikely sources, because a sample previously taken at approximately the same location with the same number of aliquots and at the same depth as BAJ102 and analyzed twice had concentrations less than 1 ppb. Analytical error is a likely source of the positive. There are 2 ways to test this hypothesis. First, sample BAJ102 can be reanalyzed. The same was analyzed by U.S. Testing; according to contract specifications, the laboratory should still have the sample.

The second method is to take another 10 aliquot sample at 0-2 inch depth and at approximately the same location as BAJ102. Resampling will cost more than reanalyzing BAJ102; therefore, I recommend that the existing sample be reanalyzed and further action taken depending upon the results of that analysis.

Helen L. Holm
HELEN L. HOLM by RLS
Region VII TAT

Robt L Sholar
Reviewed by Robert L. Sholar
Region VII TATL

HLH/dm

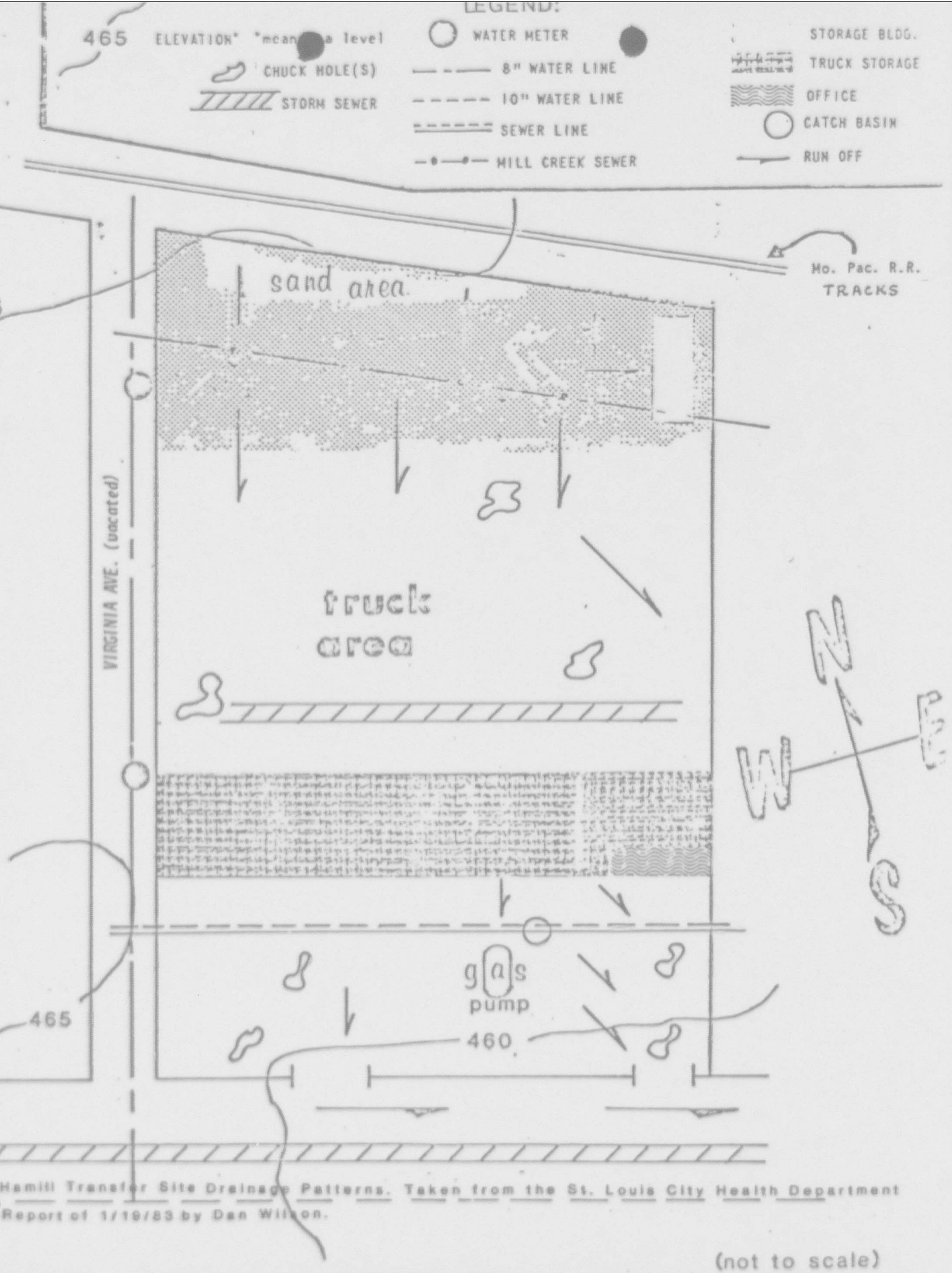
Attachments

cc: William Keffer

WESTON

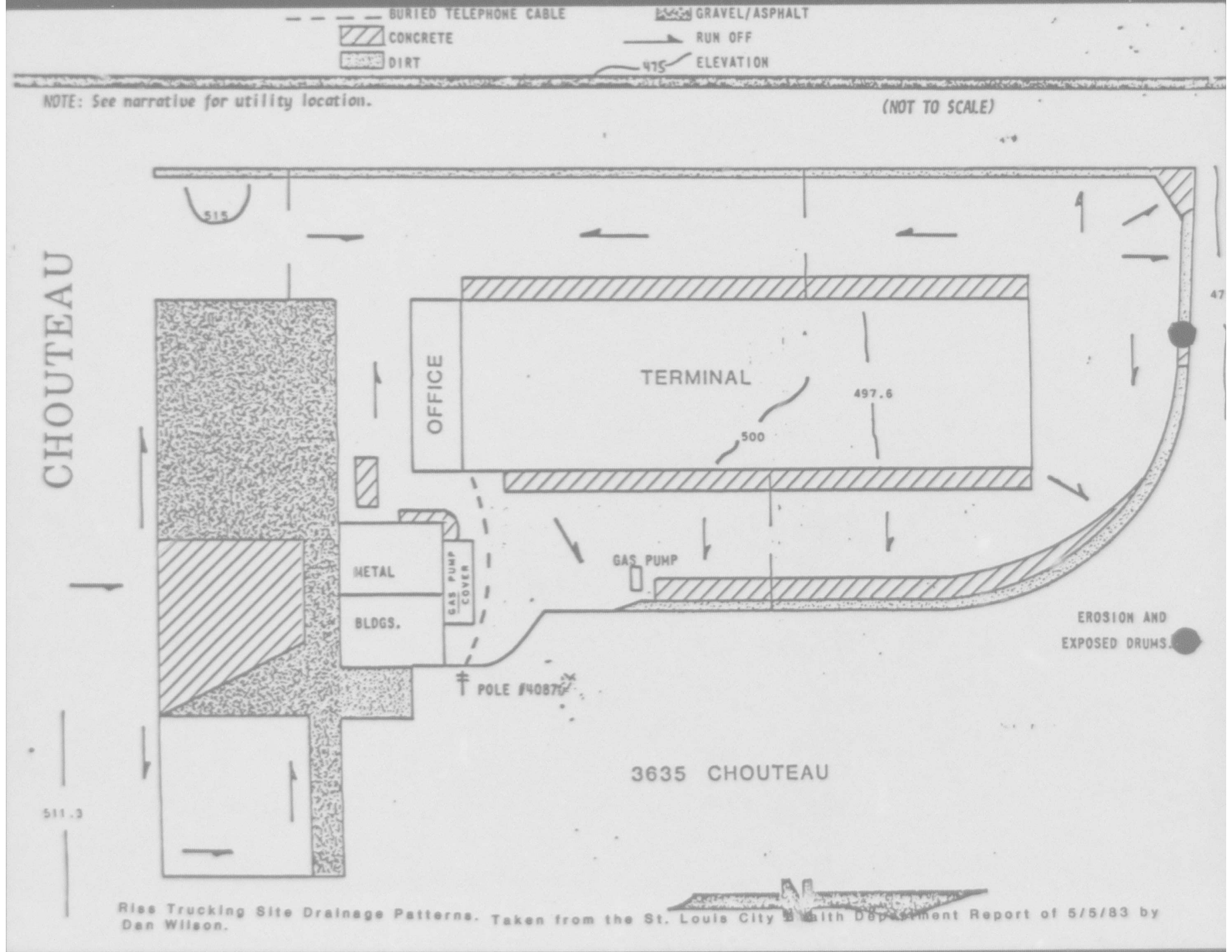
Locations of Hamill Transfer and Riss Trucking.

1 inch = 0.71 mile.



Hamill Transfer Site Drainage Patterns. Taken from the St. Louis City Health Department Report of 1/19/83 by Dan Wilson.

(not to scale)



Riss Trucking Site Drainage Patterns. Taken from the St. Louis City Health Department Report of 5/5/83 by Dan Wilson.

AAJ102----0.45 ppb
0.23 ppb

BAJ102----1.08 ppb

$$\frac{0.23 + 0.45 \text{ ppb}}{2} = 0.34 \text{ ppb}^*$$

$$0.34 + 1.08 \text{ ppb} = 1.42 \text{ ppb}$$

$$\frac{1.42 \text{ ppb}}{2} = 0.71 \text{ ppb}$$

* Note: The 2 values for AAJ102 are averaged first because they are 2 data points for the same sample, AAJ102.

May 29, 1986

MEMORANDUM

SUBJECT: Riss International Truck Line, St. Louis, Missouri

FROM: Charles P. Hensley
Chief, EP&R/ENSV

TO: ✓ Robert L. Morby
Chief, SPFD/WSTM

Item #VI-39 of the Third Quarter FY-86 Activity Request requests resampling for dioxin using statistical sampling techniques at the Riss International Truck Lines Terminal, St. Louis, Missouri. As noted in your requests, this site was sampled previously and one sample analyzed positive for dioxin with a concentration of 1.08 ppb. All other samples were either undetected or below 1.00 ppb.

As you may know, CDC's current recommendations for industrial exposure situations call for dioxin concentrations in soil of less than 5 ppb (see the CDC letter of July 8, 1984, to Morris Kay). Remedial clean-up actions implemented or proposed at several industiral sites (i.e., Monsanto, Thompson Chemical and East Texas Motor Freight) have been based on the 5 ppb clean-up target.

In light of this, we see no basis for conducting statistical sampling at a site with only one confirmed positive sample at 1.08 ppb dioxin.

Please reevaluate this request. If you have any questions, please contact Paul Doherty at 236-3888.

Attachment

PD:hb:5:29:86
SINV EP&R

5/29/86 Hensley 5/29/86

sent
MAY 30 1986

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

May 29, 1986

MEMORANDUM

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FROM: Charles P. Hensley CPH
Chief, EP&R/ENSV

TO: Robert L. Morby
Chief, SPFD/WSTM

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Attachment

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
Atlanta GA 30333

July 8, 1984

Mr. Morris Kay
Regional Administrator
U.S. Environmental Protection Agency
Region VII
324 East 11th Street
Kansas City, Missouri 64106

Dear Morris:

As you know we have been evaluating the health issues related to cleanup of land contaminated with 2,3,7,8-tetrachlorodibenzodioxin (TCDD) in response to requests from you and others in EPA. We would like to communicate to you our recommendations on several issues of importance.

We have previously stated that TCDD concentrations of one part per billion (ppb) or greater in the surface soil of a residential area constitute an unacceptable risk to human health. Adequate cleanup of residential areas, from a public health perspective, requires that the concentration of TCDD left in surface soil be less than one ppb. Although research is continuing into the health effects of TCDD, we are not currently aware of any new information that would substantially alter the reasoning behind this judgement, as expressed in the TCDD risk assessment document of Kimbrough, et al.

Acceptable remedial strategies for residential areas might include leaving TCDD concentrations of one ppb or greater in soil that is below the surface level (covered either by the surface soil or some more durable material such as asphalt or concrete) if current and future use of the land precludes the likelihood of significant future exposure to the contaminated soil. Should TCDD be left in subsurface areas, EPA, as the federal agency responsible for risk management at TCDD sites, should be able to assure that these higher concentrations of TCDD will not be disturbed during all reasonable uses of residential land. There must also be assurance that erosion will not eventually uncover these buried pockets of TCDD; the land use must also be monitored to prevent future use (e.g., construction) that might disturb the buried TCDD, causing unacceptable human exposure at a future date. In the absence of long-term monitoring of contaminated residential sites, the Centers for Disease Control (CDC) recommends that the 2,3,7,8-TCDD be removed from all contaminated areas, regardless of depth, to a level of 1 ppb. In any event, in areas with surface and subsurface contamination, we would recommend removing at least the upper layer of heavily contaminated soil (6 inches or greater) and replacing with uncontaminated soil to provide an effective barrier for ordinary residential use. Where feasible, e.g., in discrete areas of exposure, or in areas of very high levels of contamination, we would recommend removing as much of the highly contaminated subsurface dirt as feasible.

For land where the use is going to be other than residential, a cleanup standard different from one ppb may be appropriate. Certain agricultural activities, such as raising food animals that bioaccumulate TCDD, ought to be conducted on land with far less than one ppb TCDD. For commercial or former industrial areas, where children are seldom present and where extensive human contact with soil or dust is not likely to occur, a cleanup standard less stringent than one ppb could reasonably be considered. In evaluating such non-residential areas judgement must be used as to the likelihood of significant exposure (especially to children) occurring. For example, non-residential areas such as playgrounds, parks, day-care centers, horse arenas or other settings where significant exposure to soil occurs should have limits similar to residential areas. Other areas with less likelihood of significant exposure could have clean-up standards that are somewhat higher; the levels proposed by EPA Region II of 5 ppb for such areas (with a ceiling of 7 pbb) seem reasonable to us. The same caveats noted above concerning erosion and future land use also would apply to commercial areas.

As you know, it is very important that the remedial strategies applied be consistent from Region to Region. Furthermore, although there is great variability among the sites, it is important to apply the same general set of principles so that a consistent policy is developed and implemented. We are quite willing to assist in this process, and we will be glad to review remedial action plans for conformance to accepted public health principles.

Sincerely yours,

Vernon N. Houk, M.D.
Director
Center for Environmental Health

contained dioxin at a level of 1.31 ppb. ATSDR has reviewed the sampling at this site and although it did not involve composite sampling (Exner or Montana State), concluded that there was as a sufficient number of discrete samples to adequately characterize the site. ATSDR stated in a Health Consultation dated March 29, 1995 that "if an average were to be conducted for the levels of dioxin at the various soil depths, all would be below 1 ppb." The workgroup recommends no further action at this location.

2. Riss International This site is located at 3625 Chouteau is St. Louis. It is an inactive truck terminal. Sampling was conducted at this location in June of 1994. It was deemed necessary to take samples from an adjacent salvage yard as part of this effort because the previous analytical result above one part per billion that prompted the workgroup to recommend this location for sampling was located immediately adjacent to the salvage yard. Thirty-six soil samples at varying depths were taken from eleven different borings. Three of these samples were from the salvage yard. Analytical results revealed only one sample that tested positive for dioxin. This sample was below one ppb. None of the samples taken from the salvage yard contained dioxin. The workgroup recommends no further action at this location.

3. Transcon This site is located at 5701 Hall Street in St. Louis. It is the location of an active truck terminal and is immediately adjacent the Jones Trucklines site. Sampling was conducted at this location in June of 1994. Seventy-four soil samples at varying depths were taken from thirty-four borings. Analytical results revealed that thirteen samples tested positive for dioxin. Seven of these were below one part per billion. The following six samples were at levels above one part per billion:

Sample No.	Concentration	Depth
009	1.33 ppb	0-6"
020	1.35 ppb	6"-12"
054	2.23 ppb	6"-12"
055	1.08 ppb	0-6"
065	15.0 ppb	0-6"
067	1.29 ppb	0-6"

With the exception of samples 054 and 055, all of the samples that contained levels of dioxin above one part per billion were located adjacent to the Transcon/Jones property line. This location is now considered part of the Jones site and subsequent activities at the location will proceed accordingly.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

MAR 21 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Jesse Sherrell
3601 Chouteau
St. Louis, Missouri 63103

Dear Mr. Sherrell:

The Environmental Protection Agency (EPA) collected samples the parking lot adjacent to your business and a dust sample from the interior in November 1984. This sampling activity was part of our investigation of the site known as Jesse's Grill. Samples obtained were analyzed for 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) and one sample was analyzed for a number of organic and inorganic substances commonly referred to as priority pollutants. Dioxin analysis results have been previously sent to you.

Enclosed is a copy of the analytical results of the priority pollutants. Please note that the majority of the priority pollutants were not detected in the sample analyzed and are designated by a numerical value and the letter U, meaning that they were undetected at the detection limit, or the letter J, meaning it was an approximate value. Two of the analyses results are designated by the letter I, meaning an analysis was attempted but no results can be reported.

Based on these analytical results we plan no further investigation on this site. We will contact you if, at a later date, we learn of any new facts we think might warrant altering of the above decision.

We welcome any questions you may have. Our first concern is that your questions are answered clearly and completely. Questions may be directed to our toll number, 1-800-892-5009.

Sincerely yours,

Robert L. Morby
Chief, Superfund Branch
Waste Management Division

Enclosures

cc: Linda E. James, MDNR (w/enclosures)
Dr. William Hope, St. Louis Health Dept. (w/enclosures)
Columbia Properties, Loren Clouse, Vice President of Maintenance, 215 S. Pershing Road, K.C.MO. 64405

DATE: December 1, 1983

SUBJECT: Final Site Report - Riss International
Superfund Site Number: J1

FROM: Michael D. Erbaugh
Region VII TAT - Team Leader

TO: John C. Wicklund
Director, ENSV

THRU: William J. Keffer
Chief, EP&R/ENSV

NAME OF SITE:

Riss International
3635 Chouteau
St. Louis, Missouri

SITE CONTACT:

Loretta Dunovich
Kansas City, Missouri Office
1-800-892-5795

SITE LOCATION:

The site is located approximately 1/2 block west of Grand Blvd. on Chouteau in St. Louis, Missouri. This site is located in an industrial section within the City limits of St. Louis, Missouri. Pevely Dairy is located south of the site on the opposite side of Chouteau. Another truck terminal is located west of this site and a scrap metal facility is located directly to the east. There are no residences in the vicinity.

SITE HISTORY:

The site was identified by a former driver for Russell Bliss as having been sprayed by the Bliss Company during the period of interest. Strickland Truck Lines occupied this site in the early 1970's, after which time the site was vacant for several years before Riss purchased it in 1978. Leaseway Express and Arkansas Freightways have been leasing sections of this site since 1982. Leaseway Express leases the area south of the fence dividing the yard, and Arkansas Freightways leases the area north of this fence. Riss occupies the structure called metal building one.

OWNERSHIP AND ACCESS:

This site is owned by Riss International, with the main office located in Kansas City, Missouri. The phone number is 1-800-892-5795 and the contact is Loretta Dunovich. The on-site occupants are Riss International, Leaseway Express, and Arkansas Freightways. Mr. Loren Clouse, Vice President of Riss International, signed the access agreement on November 29, 1983.

EXPOSURES:

This site is located in an industrial section within the City of St. Louis. It is surrounded on three sides by other businesses. To the north of this site is a fifty-foot dropoff to Gratiot Road. Part of this cliff has been covered with concrete to reduce the undercutting effect of erosion caused by lot runoff. The major part of the east exposure to the site is occupied by a scrap metal yard. The scrap metal yard receives runoff from the site during periods of precipitation. There is a large structure also to the east occupied by Fitwell Seat Covers. This structure is owned by Riss International. Jesse's Grill is located adjacent to the southeast corner of the site. This building is also owned by Riss International. Pevely Dairy is located south of this site on the opposite side of Chouteau. There is another truck terminal located on the west side of the Riss site.

SAMPLING INVESTIGATION:

OBJECTIVES:

1. To obtain adequate samples from the allegedly sprayed area to determine the presence or absence of dioxin contamination on the site.

2. If contamination exists, to be able to estimate probable concentration ranges.

3. To obtain samples from likely human exposure areas to serve as a guide for follow-up intensive sampling.

4. To obtain off site samples to ascertain if there is any off-site migration of contamination, if contamination exists.

PROPOSED SAMPLING DETAILS:

The following five types of samples were proposed to assess the possibility of TCDD contamination at this site:

1. DRAINAGE SAMPLES - Site drainage occurs on both the north and east side of the site. On the north, drainage runs past the fence and down a steep slope to the street below. Drainage to the east flows into a scrap metal yard. One 10-aliquot sample will be taken north of the site from the west Riss property line east to the north property line of the scrap metal

facility. A second 10-aliquot drainage sample will be taken on the west side of Grand Boulevard. Both drainage samples consisted of surface accumulation. Drainage samples are shown as squares on the site map.

2. DUST SAMPLES - Dust samples will be taken from the terminal, the office, and two metal buildings on site, a building in the scrap metal facility northeast of the site, Jesse's Grill on the southeast corner of the site, and a large building in the east central area of the site. Dust samples are shown as triangles on the site map.

3. DRILL RIG SAMPLES - Discrete drill rig samples will be taken at a depth of 0-12 inches based on a 100-foot grid. A total of 16 drill rig samples, plus duplicate and priority pollutant samples, will be taken. The drill rig sample points are shown as circles on the site map.

4. STREET SWEEP SAMPLES - Two street sweepings will be taken along the north edge of the site. Each sweeping will be taken along a 200-foot section of the street. Sweepings will not be taken along Grand Boulevard or Chouteau due to the danger to sample team members from the heavy traffic flow along these two streets. Sweep samples are shown as zig-zag lines between arrows on the site map.

5. CONTROL CAMPGROUND SAMPLE - A control/background sample will be taken at a location to be decided by the Team Leader. This sample is not shown on the site map.

SITE ACTIVITIES:

Sampling team arrived on site (Riss International) at 0800 hours on November 29, 1983. Sampling team consisted of the following personnel:

Mike Erbaugh - TAT Region VII - Team Leader
Russ Krohn - TAT Region VII
Mike Clemons - TAT Region VII
Karen Sahatjian - TAT Region VII
Susie Love - TAT Region VII
Dennis Howard - TAT Region VII
Helen Holm - TAT Region VII
Wood Ramsey - TAT Region VII
Larry Alderson - MDNR
Mark Reising - MDGLS

Mr. Dan Wilson of the City of St. Louis Health Department was on scene with the sampling team. At 0845 hours Mr. Loren Clouse, Vice President of Riss International, arrived on scene and signed the Access Agreement for sampling to be conducted on site.

A total of 25 samples were obtained:

Soil	15
Dust/Sweepings	5
Drainage	2
Rinsate	1
Duplicates	1
Prioirity Pollutants	1
TOTAL	25

Upon completion, area was cleaned and all holes were filled and cold patched. Sampling team returned to the Command Post. Sampling van was restocked and samples were packed for shipment. (See Attached)

DEVIATIONS TO THE SAMPLING PLAN:

1. DRAINAGE SAMPLES - The north drainage sample was taken within the Riss compound. The east drainage sample was taken on a concrete access road east of the scrap metal yard and west Grand Blvd.

2. DUST SAMPLES - No office sample was taken due to insufficient dust. Metal Building I and Metal Building II turned out to be one building, therefore only one sample was taken. The owner of the scrap metal yard would not sign an access agreement.

3. DRILL RIG SAMPLES - The west row of samples was moved to 60 feet from the west fence to avoid parked trucks and a concrete pad that ran the distance of the terminal. The F row was moved 70 feet south of the E row to avoid parked trucks. Sample point E3 was unobtainable due to the concrete below the asphalt.

4. STREET SWEEPING SAMPLES - The north sweeps were reduced to one sweep sample due to the distance to the street below.

5. CONTROL/BACKGROUND - No control sample was taken. All areas that would have been within a reasonable distance were paved.

IMPLEMENTATION AND GENERAL COMMENTS:

The closest hospital was approximately three blocks south of the site at the intersection of Park and Grand. Sample collection and safety procedures remained identical to those described previously in study plan documents for previous phases of the St. Louis Area Dioxin Investigation. Individual sample data documentation was implemented and chain-of-custody was maintained in adherance to standard EPA procedures.

Attachment

EPA #	SITE NAME	LOCATION
-AAJ100	Riss International	St. Louis, Mo.
A-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ101	Riss International	St. Louis, Mo.
B-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ102	Riss International	St. Louis, Mo.
C-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ103	Riss International	St. Louis, Mo.
D-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ104	Riss International	St. Louis, Mo.
E-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ105	Riss International	St. Louis, Mo.
F-1 location, 0-12 in. depth, 1 aliquot.		
-AAJ106	Riss International	St. Louis, Mo.
E-2 location, 0-12 in. depth, 1 aliquot.		
-AAJ108	Riss International	St. Louis, Mo.
A-3 location, 0-12 in. depth, 1 aliquot.		
-AAJ109	Riss International	St. Louis, Mo.
B-3 location, 0-12 in. depth, 1 aliquot.		
-AAJ110	Riss International	St. Louis, Mo.
C-3 location, 0-12 in. depth, 1 aliquot.		
-AAJ111	Riss International	St. Louis, Mo.
D-3 location, 0-12 in. depth, 1 aliquot.		
-AAJ113	Riss International	St. Louis, Mo.
F-3 location, 0-12 in. depth, 1 aliquot.		
-AAJ114	Riss International	St. Louis, Mo.
F-2 location, 0-12 in. depth, 1 aliquot, Priority Pollutant taken with same sample no.		
-AAJ115	Riss International	St. Louis, Mo.
F-2 location, 0-12 in. depth, 1 aliquot, Duplicate of AAJ114.		
-AAJ116	Riss International	St. Louis, Mo.
F-2 location, Rinsate of AAJ114.		
-AAJ117	Riss International	St. Louis, Mo.
North Sweep.		
-AAJ118	Riss International	St. Louis, Mo.
North Drainage, Surface, 10 Aliquots.		
-AAJ120	Riss International	St. Louis, Mo.
East Drainage, Surface, 10 Aliquots.		

EPA #	SITE NAME	LOCATION
-AAJ121 Terminal Dust.	Riss International	St. Louis, Mo.
-AAJ123 Unknown Building Dust.	Riss International	St. Louis, Mo.
-AAJ124 Metal Building 1. Dust.	Riss International	St. Louis, Mo.
-AAJ126 Jesse s Grill Dust.	Riss International	St. Louis, Mo.
-AAJ127 F-4, 0-12 in., 1 Aliquot.	Riss International	St. Louis, Mo.
-AAJ128 F-5, 0-12 in., 1 Aliquot.	Riss International	St. Louis, Mo.

RECORDS SELECTED 24